



US009408417B2

(12) **United States Patent**  
**O'Connell**

(10) **Patent No.:** **US 9,408,417 B2**  
(45) **Date of Patent:** **Aug. 9, 2016**

(54) **METHOD FOR PREPARING TOBACCO  
EXTRACT FOR ELECTRONIC SMOKING  
DEVICES**

2009/0025739 A1 1/2009 Brinkley et al.  
2009/0181080 A1\* 7/2009 Kottayil ..... A61K 9/0014  
424/456  
2010/0222437 A1\* 9/2010 Munoz Blanco ..... A61K 31/05  
514/680

(71) Applicant: **Thomas O'Connell**, Sunny Isles Beach,  
FL (US)

(72) Inventor: **Thomas O'Connell**, Sunny Isles Beach,  
FL (US)

(73) Assignee: **HZAT LLC**, Miami, FL (US)

(\*) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 656 days.

(21) Appl. No.: **13/915,347**

(22) Filed: **Jun. 11, 2013**

(65) **Prior Publication Data**

US 2014/0000637 A1 Jan. 2, 2014

#### **Related U.S. Application Data**

(60) Division of application No. 13/397,221, filed on Feb.  
15, 2012, now Pat. No. 8,479,747, which is a  
continuation of application No. PCT/US2011/035592,  
filed on May 6, 2011.

(60) Provisional application No. 61/347,145, filed on May  
21, 2010.

(51) **Int. Cl.**  
**A24B 15/24** (2006.01)  
**A24F 47/00** (2006.01)

(52) **U.S. Cl.**  
CPC ..... **A24F 47/008** (2013.01); **A24B 15/24**  
(2013.01); **A24B 15/243** (2013.01)

(58) **Field of Classification Search**  
None  
See application file for complete search history.

(56) **References Cited**

#### **U.S. PATENT DOCUMENTS**

2,805,667 A 9/1954 Von Bethmann  
5,326,563 A 7/1994 Spindler et al.  
5,445,169 A 8/1995 Brinkley et al.  
5,791,353 A 8/1998 Jünemann et al.  
2005/0016550 A1 1/2005 Katase

#### **OTHER PUBLICATIONS**

Various Authors, "Brewing marijuana into espresso?" May 10,  
2008, marijuana.com, accessed on Mar. 29, 2016: <http://marijuana.com/community/threads/brewing-marijuana-into-espresso>.

230342/\*  
Various Authors, "espresso machine?" Jan. 18, 2007, cannabis.com,  
accessed on Mar. 29, 2016: <http://boards.cannabis.com/threads/espresso-machine.99163/>.

Burns, D.M. et al., "Mandated lowering of toxicants in cigarette  
smoke: a description of the World Health Organization TobReg Pro-  
posal", 2008, Tobacco Control, 17: pp. 132-141.

International Search Report and the Written Opinion of the Interna-  
tional Searching Authority for International Appl. No. PCT/US2011/  
35592, dated Nov. 1, 2011.

Wikipedia, "Espresso Machine", Mar. 21, 2011, 5pp.

How to Grow Tobacco.com, "Extracting Liquid nicotine for e-ciga-  
rettes", p. 8, (2011).

Cheapskate, et al., "Nicotine extraction and purification," www.  
sciencemadness.org, accessed via <http://www.sciencemadness.org/talk/viewthread.php?tid=3404>, Feb. 16, 2005-Sep. 7, 2008.

"wiseGeek.com," "What is Double Brewed Coffee?", Conjecture  
Corporation, accessed via: <http://www.wisageek.com/what-is-double-brewed-coffee.htm>, Dec. 29, 2007.

International Preliminary Report and Written Opinion of the Inter-  
national Searching Authority for International Appl. No. PCT/US11/  
35592, dated Nov. 27, 2012.

\* cited by examiner

*Primary Examiner* — Michael J Felton

(74) *Attorney, Agent, or Firm* — Fanelli Haag PLLC

(57) **ABSTRACT**

A method and a system for preparing a tobacco extract for use  
in an electronic smoking device are provided. A tobacco  
extract and an electronic smoking device are also provided.  
The method includes grinding tobacco into granulated par-  
ticles, and heating purified water. The method further  
includes injecting the heated purified water through the  
granulated particles of the tobacco for a predetermined period  
of time to produce an aqueous solution, and adding purified  
water to the aqueous solution. Further, the method includes  
heating the aqueous solution, and injecting the heated aque-  
ous solution through ground tobacco for the predetermined  
period of time to produce a tobacco extract for use in the  
electronic smoking device.

**21 Claims, 3 Drawing Sheets**